

ABSTRACT OF THE DISCLOSURE

This invention relates to neuronal tissue which is suitable to restore neuronal deficits following transplantation. To reduce immunological side effects and to increase the microbiological and genetic safety of the tissue we propose tissue that does not contain glial cells and is maintained in vitro for prolonged periods. The method to generate expandable determined neuronal progenitor cell cultures includes the following procedures: dissection of appropriate mammalian brain regions, isolation of progenitor cells, expansion of progenitor cells, selection and expansion of individual cells and priming.